Index to Volume LXI.

Acanthocnema ruficauda n. sp., 133. Acoma arizonica n. sp., 212. Aegialia crassa insularis n. subsp., 87. Aeolothrips melaleucus Haliday, 286. Agrotinae, Note on a Generic Term in the, 241. AINSLIE, C. N., Article by, 39. ALEXANDER, CHARLES P., Articles by, 15, 231, 247. ALLARD, H. A., Article by, 195. Allochthonius n. gen., 154. Allochthonius opticus Ellingsen, 155. shintoisticus n. sp., 155. Amblycorypha oblongifolia, 198. Ameletus cooki n. sp., 174. " similior McD., 174. Anaxipha exigua Say, 195. Ancistrocerus capra and the Larvae of Epargyreus tityrus, 265. Anepeorus simplex Walsh, 178. Angitia albertae n. sp., 191. basizona Vier., 192. cacoeciae Vier., 192. fenestralis Holmg., 193. incipiens n. sp., 192. macer Cress., 192. rosanae Vier., 192. " triops n. sp., 191. Anisota manitobensis, Notes on the Early Stages of, 98. Anthidium collectum Huard, Notes on the Habits of, 94.

Anthomyids Belonging to the Genus Hylemyia Rob.-Desv., New Canadian, 93, 110, 136, 161, 180. Anuraphis gutierrezis n. sp., 200. Apechthis ornatulus n. sp., 190. Aphids from Utah, A Few Match Brush, 199. Aphis cryptus n. sp., 199.

" maidiradicis Forbes, 199 Aphodius anomaliceps n. sp., 207. bryanti n. sp., 88. carri n. sp., 89. corruptor n. sp. 206. cruentatus Lec., 210. dentigerulus n. sp., 208. dialytoides Fall, 211. dialytoides Fau, 211.
edmontonus n. sp., 87.
hamatus garmani n. subsp., 227.
hamatus Say, 225. humeralis Lec., 211. hyperboreus Lec., 229. occidentalis Horn, 225. Subgenus Diapterna. of the Revision of the Species of, 224, omissus omissus Lec., 227. torpidus Horn, 228. pingellus n. sp., 228. pinguis Hald., 230. pyriformis n. sp., 205. sagittarius Harold, 225. snowi n. sp., 209. validus Horn, 230. Apochthonius J. C. Chamberlin, 152.

" (Apochthonius) intermedius
n. sp., 153.

Apochthonius (Apochthonius) moestus (Banks), 153.
(Heterochthonius) crosbyi n. sp., 153. Aradus compressus Heidemann, 246. gracilis n. sp., 245. , New Species and New Records of, 243. nigrinus canadensis n. subsp., 246. " paganicus n. sp., 244.
" quadrilineatus Say, 243.
Arctocorixa bilineata Provancher, 34. , Notes on the Identity of the Provancher Species of, 34. Arctocorixa trilineata Provancher, 36. Argynnis montivaga oweni Edw., 107. " nevadensis gallatini n. var., 106. Argyroploce minaki n. sp., 270. Balduf, W. V., Articles by, 125, 221. Barkbeetles, The Biology of Canadian, 145, 274. Bembidion, A New, 135. (Peryphus) mackinacensis n. sp., 135. BISHOP, SHERMAN C., Article by, 101. Blapstinus cinerascens n. sp., 58. Bolbocerosoma hamatum n. sp., 213.
Bombomima and Laphria with Descriptions
of Three New Species and Two
New Varieties, Notes on the Asilid Genera, 157. Bombomima fernaldi Back. 16 huron n. sp., 159. " posticata brunnea n. var., 159. scutellaris n. var., vorax n. sp., 158. BOOK NOTICES Contribution Toward a Monograph of the Adelginae (Phylloxeridae) of North America by P. N. Annand, 96. Destructive and Useful Insects, Their Habits and Control by C. L. Met-calf and W. P. Flint, 23. Elementary Lessons on Insects by James G. Needham, 24. A Handbook of the Dragonflies of North America by Jas. G. Need-ham and Hortense B. Heywood, Manual of External Parasites by H. . E. Ewing, 264. Principles of Forest Entomology by Samuel Alexander Graham, 241. The Problems of Applied Entomology by R. A. Wardle, 168. BOOK REVIEW: The Principles of Systematic Entomology by Gordon F. Ferris, 47.

Braun. Annette F., Article by, 38. Brenthis helena ingens B. & McD. 106. "kriemhild Stkr., 106.

BRIAND, L. J., Article by, 51.
BRODIE, H. J., Article by, 98.
BROMLEY, S. W., Article by, 157.

Brown, W. J., Articles by, 86, 108, 204, 224, BUCKLE, J. W., Article by, 265.

Callanthidium illustre Cresson, On the Nesting Habits of, 1.
Callipterine from Victoria, B. C., A New, Campoplegidea Parasitic on Ellopia fiscel-

laria Gn., A New, 22. Campoplegidea (Viereckiana) ellopiae n.

sp., 22. Camptocladius byssinus, 224.

Capitophorus elongatus n. p., 11. gregarius n. sp., 13. oestlundi Knowlton, 11.

" utense n. sp., 201. CARR, F. S., Article by, 134. Centroptilum bifurcatum McD., 171.

conturbatum n. sp., 171. walshi n. sp., 173.

CHAMBERLIN, JOSEPH CONRAD, Article by, 152.

CHAMBERLIN, RALPH V., Article by, 37. Chilopods, Two New Lithobioid, 37. Chthonius californicus J. C. Chamberlin, 154.

Chthonius tetrachelatus Preyssler, 154. Cicadella hieroglyphica var. dolobrata Ball, Concerning, 69.

Cinygma tarda n. sp., 178. Coleoptera from Western Canada, II, New, 251.

Coleoptera, Notes on a Few Minnesota, 256. Coleoptera, Some New Species of, 108. Coleoptera, XIII, New, 54.

Compsaditho iavana n. sp., 152. Coneheaded Katydid, 195.

Conotrachelus retusus n. sp., 59. Cordilura alberto n. sp., 132. " criddlei n. sp., 131.

fasciventris fulvithorax n. var., 131.

inversa n. sp., 131. ontario n. sp., 132 passira n. sp., 130.

varicornis n. sp., 130. Cordylurella costalis n. sp., 133.

Corn root-aphis, 199.
Crampton, G. C., Article by, 70.
Crane-Flies of Quebec, A List of the, 231,

247. Crane-Flies Part XIII, New Nearctic, 15. Crane-Fly, Prctoplasa fitchii, Observed near Chandler in the Gaspe Peninsula, A Swarm of Males of the Rare and Primitive, 70.

Criddleria n. gen., 31.

Criaderia B. gen., 31.

"hemiptera B. sp., 32.
Crosby, C. R., Article by, 191.
Cryptomyzus ribis Linnaeus, 10.
Curran, C. H., Articles by, 30, 45, 130.
Custer, Clarence P., Article by, 49.
Cylindrocopturus, A New, 134.

medicatus n. sp., 134.

Dendroctonus piceaperda Hopk., 145.

Dendroctonus piceaperda Hopk., 145.

simplex Lec., 274.

Dermanyssus gallinae L. in the Nest of a House Wren, Note on the Occurrence of the Mite, 39.

Dermestis lardarius L., 238.

Dialytellus n. gen., 212.

"dialytoides Fall, 212.

"humeralis Lec., 212.

Dialytes criddlei n. sp., 210.

Diapterna, Revision of the Species of Aphodius of the Subgenus, 224.

Dicranomyia gibsoni n. sp., 17.

Dicranomyia gibsoni n. sp., 17. Dicranota notabilis n. sp., 18.

Didactylia d'Orb., 90.

"knausii Fall, 91.

"parca Horn, 91.

Diptera, Some New Nearctic, 30.

Ellopia fiscellaria Gn., A New Campopleg-idea Parasitic on, 22. Endothenia heinrichi n. sp., 270.

Epargyreus tityrus, Ancistrocerus capra and the Larvae of, 265. Epeorus albertae McD., 177. Ephemerella deficiens Morg., 170.

flavilinea McD., 169. hecuba Eaton; Description of Various Stages, 260.

Ephemerella heterocaudata n. sp., 170. tibialis McD., 170.

Ephemeroptera with Descriptions of New Species, II, Notes on North on North American, 169.

Epinotia mgralbanoidana n. sp., 271. Erebia sofia Stkr., 106. Eremocoris canadensis n. sp., 41.

melanotus n. sp., 42. with Notes and a Key to the

Species of Peritrechus, Two New Species of, 41. Erioptera (Erioptera) gaspeana n. sp., 250.

viridula n. sp., 20.

" painteri n. sp., 19. Euphydryas, A New California, 44. " irelandi n. sp., 44. Eupithecia albipunctata Haw., 61.

ammonata n. sp., 63. annulata Hlst., 68.

bryanti Tayl., 61. castigata Hbn., 61.

coagulata Gn., 63. columbiata Dvar, 62. edna Hulst, 63. fletcherata Tayl., 62.

gelidata Mesch., 66. georgii n. sp., 67. hanhami Tayl., 67.

harlequinaria Dyar, 62. harveyata Tayl., 61.

helveticaria Bdv., 64. indistincta Tayl., 65. innotata Hufn., 66. kasloata Dyar, 65. luteata Pack., 62.

nimbicolor Hlst., 65. perfusca Hist., 67. pygmaeata Hbn., 61. Eupithecia satyrata Hbn., 64. silenata Studfs., 60. sobrinata Hbn., 68.

Eupithecias, Synonymic Notes on Canadian, 59.

European Corn Borer (Pyrausta nubilalis Hubn.) with Special Reference to Equipment and Cages, Laboratory Breeding of the, 51.

Eutheresia Towns., 33.

interrupta n. sp., 3 trivittata n. sp., 33.

FALL, H. C., Article by, 54. FERRIS, G. F., Article by, 280. Field Cricket, 195. FLETCHER, FRANK -C., Anticle by, 256. Four-Spotted Tree Cricket, 196.

Genitalia Attached to Specimens, Mounted, 97. GLENDENNING, R., Article by, 237. Gracillaridae, A New Genus and Species in the, 38.

Gryllus assimilis pennsylvanicus Burm., 195. GUNDER, J. D., Articles by, 44, 97.

HATCH, MELVILLE H., Articles by, 76, 135. Heptagenia cruentata Walsh, 180. "persimplex n. sp., 179. Heterochthonius n. subgen., 153. Heterosphyromida, On Some False Scorpions of the Suborder, 152.

HICKS, CHARLES H., Articles by. 1, 84, 121. Hilaira balia n. sp., 103. Hister jaquesi n. sp., 76 Histeridae, Studies on, 76.

Holcocera immaculella n. sp., 269. Homaemus aeneifrons Say, 254. extensus n. subsp.,

bijugis Uhl., 254.

parvulus Germ., 254. proteus Stal., 254.

variegatus Van D., 254.

wariegatus Van D., 254.
with a Key to the Species,
Notes on, 253.
HOPPING, GEO. R., Article by, 251.
HOPPING, RALPH, Article by, 251.
HUCKETT, H. C., Articles by, 93, 110, 136,
161, 180.

Hydrochus currani n. sp., 108. Hylemyia abitibiensis n. sp., 167. " aquitima n. sp., 138.

brevipalpis n. sp., 180. brunetta n. sp., 139.

canadensis n. sp., 162. consobrina n. sp., 187. crucifera n. sp., 93.

egleformis n. sp., 142. equifrons n. sp., 163.

161. frontulenta n. sp.. garretti n. sp., 117. gemina n. sp., 95.

Hylemyia impersonata n. sp., 114.

lobata n. sp., 137

mutans n. sp., 113. neomexicana Mall., 115.

nigricandata n. sp., 1 oppidans n. sp., 165. 66 pedicillaris n. sp., 181 66

pentaformis n. sp., 110. pilicauda n. sp., 141. planipalpis Stein, 94. 66

propinquina n. sp., 118. repleta n. sp., 112. replicata n. sp., 136. Rob.-Desv., New

Canadian Anthomyids Belonging to the Genus, 93, 110, 136, 161.

44 seamansi n. sp., 143. sedula n. sp., 183. setisissima n. sp. 164.

Hymenoptera, Descriptions of New Canadian Parasitic, 190.

Ips borealis Sw., 145. " perturbatus Eichh., 145. Iron deceptiva McD., 177.

JOHANNSEN, O. A., Article by, 223.

KNIGHT, HARRY H., Article by, 214. KNOWLTON, GEORGE F., Articles by, 9, 199.

Labopella n. gen., 215.

" claripennis n. sp., 215. Labops verae n. sp., 214. Laphria aeatus Walker, 160. " milvina n. sp., 160.

with Descriptions of Three New Species and Two New Varieties, Notes on the Asilid Genera Bom-bomima and, 157.

Larch bark-beetle, 274.

Larder Beetle Infestations Arising from Tent Caterpillars, 238. LAWSON, PAUL B., Article by, 69. Lepidoptera from Yellowstone Park and the Adjacent Regions of Montana, Notes on Some Diurnal, 105.

Leptophlebia adoptiva n. sp., 169. Lispothrips birdi n. sp., 286.

populi n. sp., 287. , Reuter from Canada with Notes on Other Species, Two New

.Species of, 286. Loxocrambus awemensis n. sp., 267.

Macropogon cribricollis n. sp., 274.

Macropogon dubius n. sp., 27 piceus Lec., 273.

rufipes Horn, 273. , The Canadian Species of, 273.

Match Brush Aphids from Utah, A Few,

McDunnough, J., Articles by, 59, 105, 169, 241, 266.

Meadow Katydid, 198

Methia brevis n. sp., 58 Microlepidoptera, Some Apparently New,

Microneta disceptra n. sp., 101.

gargopa n. sp., 101.
Labops verae, New Species, with Labopella, Nicholia, and Pronotocrepis, New Genera of Miridae, North American, 214.

Mite, Dermanyssus gallinae L. in the Nest of a House Wren, Note on the Occurrence of the, 39.

Monocrepidius delicatus n. sp., 55

difformis n. sp., 56. ferruginosus n. sp., 54. (Heteroderes) planidiscus

n. sp., 56. MOULTON, DUDLEY, Article by, 286 Mundochthonius japonicus n. sp., 152.

Myzini (Aphididae) from Utah with

Descriptions of Two New Species,

Notes on a Few Species of, 9.

Myzocallis pulchellus n. sp., 237. Myzus aquilegiae Essig, 10. cerasi Fabricius, 9.

44 houghtonensis Troop, 10. persicae Sulzer, 9.

Nemobius palustris Blatchley, 196. Neoconocephalus triops Linn, 195.
Neoconocephalus triops Linn, 195.
Neomyzus circumflexus Buckton, 10.
Neuroterus (Cympidae) on Bur Oak,
Tetrastichus verrucarii, New Species, A Chalcid Parasite of, 221.

Neuroterus niger Gillette, 222. Neuroterus verrucarum O. S., 222.

Nicholia n. gen., 215.
"eriogoni n. sp., 216.

Nipponobius n. gen., 37.

" migrans n. sp., 37.

Notes on North American Ephemeroptera
with Descriptions of New Species, II, 169.

OBITUARY:

Ernest Henry Blackmore, 218. Harrison Gray Dyar, 46. Hugh McKellar, 288.

Oblong-winged Katydid, 198. Odontaeus alabamensis n. sp., 239.
"Dej., A New Species of, 239.

Oecanthus nigricornis quadripunctatus, 196. Oeneis jutta reducta n. var., 105. Onthophagus blatchleyi n. sp., 86. medorensis n. sp., 204.

Orchestes uniformis n. sp., 110.

Ormosia cramptoniana n. sp., 249.
"gaspensis n. sp., 249.
"huronis n. sp., 20. ingloria n. sp., 21.

Ornithoica beccariina Rondani, 281.

confluenta Say, 282. Observations on the Genus, 280. philippinensis Ferris, 285.

" pusilla Schiner, 284.
" unicolor Speiser, 285.
Orthoptera, Physiological Differentiation in Overwintering Individuals of Certain Musical, 195.

PACK, H. J., Article by, 199. PARSHLEY, H. M., Article by, 243. Perdita zebrata with Description of Larva, Habits of, 49.

Peritrechus Fieber, 43.

fratternus Uhler, 44. 66 paludemaris Barber, 43. saskatchewanensis Barber, 44.

tristis Van Duzee, 44. , Two New Species of Eremocoris with Notes and a Key to the Species of, 41.

Perophylla camellifolia, 198.

Philaenus canadensis n. sp., 156.
"in America North of Mexico, Notes on the Genus, 155.

Philaenus leucophthalmus Linn., 156. " var. fabricii Van

D., 156.
Philaenus leucophthalmus var. fasciatus (Fabr.), 156.

Philaenus leucophthalmus var. lateralis (Linn.), 156. Philaenus leucophthalmus var. leucocephal-

us Linn., 156. Philaenus leucophthalmus var. marginellus

Fabr., 156. Philaenus leucophthalmus var. pallidus

Zett., 156. Philaenus leucophthalmus var. ustulatus Fabr., 156.

Philaenus lineatus Linn., 156. parallelus Stearns, 156. Phlyctaenia nordeggensis n. sp., 266.

sheppardi n. sp., Phorodon humuli Schrank, 11. Plateros columbiensis n. sp., 108.

Platyptilia washburnensis n. sp., 269. Podabrus fallı n. sp., 252. "fissilis Fall, 252.

Polistes annularis, 219.

pallipes, 25, 219.
rubiginosis, 220.
variatus, 220.
Wasps, Feeding Experiments on,

25. Polygraphus rufipennis Kby., 145. , The Season-

al History of, 146. Polymera (Polymera) rogersiana n. sp., 18. Polynema pratensiphaga n. sp., 193. Pronotocrepis n. gen., 217.

Pronotocrepis clavicornis n. sp., 217. Protoplasa fitchii Observed near Chandler in the Gaspe Peninsula, A Swarm of Males of the Rare and Primitive Cranefly, 70.

Protolithocolletis n. gen., 38. " lathyri n. sp., 38.

Pseudochthonius Balzan, 154. simoni Balzan, 154,

Pseudomasaris edwardsii Cresson, Another Pollen-Provisioning Wasp, with Further Notes on P. vespoides Cresson, 121.

Pseudomasaris vespoides Cresson, 121.

Psorta, F. J., Article by, 119.

Ptenidium californicus n. sp., 119.

from California, A New, 119.

Ptinus ocellus n. sp., 109.
Pyrausta nubilalis Hubn., with Special Reference to Equipment and Cages, Laboratory Breeding of the European Corn Borer, 51.

RAU, PHIL, Articles by, 25, 219. RAY, E., Article by, 119. Rhaphium ciliatum n. sp., 30. Rhithrogena robusta Dodds, 180. Rhyssemus neglectus n. sp., 92. puncticollis n. sp., 91 Ross, Herbert H., Article by, 272.

Saprinus assimilis ab. semisulcus nov., 79. (Hypocaccus) eriensis n. sp., 82. jaquesi n. sp., 83. 66

michiganensis 83. Saprinus (Hypocaccus) ohioenis n. sp., 82. ontarioensis n. sp.,

Saprinus (Hypocaccus) propensoides n. sp.,

83. Saprinus lugens ab. distinguendoides nov.,

Saprinus lugens ab. oregonensoides nov., 78. Saprinus lugens ab. sejunctoides nov., 78. Saprinus oregonensis ab. distinguendus

Mars., 79. Saprinus oregonensis ab. leconteoides nov.,

Saprinus oregonensis ab. pseudodistinguendus nov., 79.

Saprinus oregonensis ab. pseudosejunctoides nov., 79. Saprinus oregonensis ab. pseudosejunctus

nov., 79. Saprinus oregonensis ab. sejunctus Mars., 79.

Saprinus pennsylvanicus ab. profusoides

nov., 79. Saprinus pennsylvanicus ab. profusus Csy.,

Scarabaeidae, Studies in the, 86, 204.

Scatophagidae, New Species of, 130.

Sciara caesar n. sp., 223.

from Canada, A New Species of, 223.

pauciseta, 224. prolifica, 224.

Scorpions of the Suborder Heterosphyronida, On Some False, 152.

Sericothrips cingulatus Hinds, 286. SHEPHERD, DAVID, Article by, 260. SIMPSON, L. J., Articles by, 146, 274. Siphlonurus barbaroides n. sp., 174.

" berenice McD., 175.

" berenice McD., 175.

" rapidus McD., 175.

Spiders, Three New Species of, 101.

STRICKLAND, E. H., Article by, 238.

SWAINE, J. M., Article by, 145.

Syrphid from Canada, A New, 45. Syrphus venablesi n. sp., 45.

Tent Caterpillars, Larder Beetle Infestations. Arising from, 238.

Tetrastichus verrucarii n. sp., 221.

"New Species,
A Chalcid Parasite of Neuroterus. (Cynipidae) on Bur Oak, 221.

Tetrastichus verrucarii with Notes on its Hosts on Bur Oak, the Bionomics of,

Thiodia castrensis n. sp., 271. Tidabius aberrans n. sp., 37. Tiny Cricket, 195. Tipula aldrichiana n. sp.,

gaspensis n. sp., 233. Trichofeltia, 241.

Trichogramma minutum Riley, Large Scale Production of the Egg Parasite, 73. Tritogenaphis escalantii Knowlton, 203. gutierrezia n. p., 203

utahensis n. sp., 202. True Katydid, 198.

Vespa arborea, 220.

crabro, 220.. germanica, 220. maculata, 219. 66

norvegica, 220. rufa, 220.

sylvestris, 220. vulgaris, 220.

WALLEY, G. STUART. Articles by, 22, 34, 41, 155, 190, 253.
WALLIS, J. B., Article by, 239.

Wasps, Feeding Experiments on Polistes, 25.

", The Silk Spun by the Larvae of Certain Social, 219.

WISHART, GEO., Article by, 73.

Xarifa lobata n. p., 57.

Zaschisonyx Ashmead, Two New Forms of the Genus, 272

Zaschisonyx montana (Cresson), 272. drabula n. var., 272.

occidentalis n. subsp.,

272.